

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application using (Original) (Currently Amended) (New) (Canceled) (Previously Presented) nomenclature, as recited in the below listing of claims.

1. (Canceled)

2. (Canceled)

3. (Canceled)

4. (Canceled)

5. (Canceled)

6. (Canceled)

7. (Canceled)

8. (Canceled)

9. (Canceled)

10. (Canceled)

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1 11. (Previously Presented) A sensor for sensing the presence of a
2 chemical vapor, the sensor adapted for interconnecting to an
3 electrical monitor for measuring a reaction of the sensor to the
4 chemical vapor, the sensor comprising,

5 a positive terminal, the positive terminal being conductive,

6 a negative terminal, the negative terminal being conductive, the
7 terminals adapted for interconnection to the electrical monitor,
8 and

9 a film of organic conductive polymer nanofibers extending
10 between the positive and negative terminal for producing a change
11 in conductivity between the positive terminal and the negative
12 terminal as monitored by the electrical monitor when the film is
13 exposed to the chemical vapor,

14 wherein the positive terminal and the negative terminal are made
15 of gold and the conducting polymer is polyaniline, the sensor
16 further comprising,

17 a thiol surface layer disposed between the terminals and the
18 film.

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20 12. (Canceled)

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